

Amendments to the Claims:

1. Cancelled
2. (Currently Amended) The insulation of Claim 29 [[1]], wherein the cellular material is selected from the group consisting of close-celled polymer foams, open-celled polymer foams, open-celled aerogels, and open-celled graphitic foams.
3. (Cancelled)
4. (Currently Amended) The insulation of Claim 29 [[1]], further comprising a matrix of cellular material surrounding said first and second fabric layers.
5. (Currently Amended) The insulation of Claim 29 [[1]], wherein the fabric layers comprise one or more plies of woven polymer fabric.
6. (Original) The insulation of Claim 5, wherein the first fabric layer is woven of fibers selected from the group consisting of aramids, polyethylenes, and polybenzazoles, and interwoven combinations thereof.
7. (Original) The insulation of Claim 6, wherein the first fabric layer is capable of absorbing up to about 30,000 ft-lbs of kinetic energy without rupture.
8. (Original) The insulation of Claim 5, wherein the second fabric layer is woven of fibers selected from the group consisting of aramids, polyethylenes, and polybenzazoles, and interwoven combinations thereof.
9. (Original) The insulation of Claim 8, wherein the second fabric layer is capable of absorbing up to about 30,000 ft-lbs of kinetic energy without rupture.
10. (Currently Amended) The insulation of Claim 29 [[1]], further comprising at least one thermal insulation layer wherein the thermal insulation layer comprises a fabric layer having thermal resistance.

11. (Original) The insulation of Claim 10, wherein the thermal insulation layer is a glass fabric layer.

12. (Currently Amended) The insulation of Claim 29 [[1]], further comprising a radiation control layer formed of a thin film selected from the group consisting of a thin metal film and an aluminized polyester film.

13. (Currently Amended) The insulation of Claim 29 [[1]], wherein the relative positioning of the layers and the particular compositions of the ballistic resistant layer and the cellular material is determined by the desired end use of the resulting insulation.

14. (Currently Amended) The insulation of Claim 29 [[1]], wherein the insulation is resistant to penetration by a fragment having a kinetic energy greater than about 1700 ft-lbs.

15. (Original) The insulation of Claim 14, wherein the insulation is resistant to penetration by a fragment having a kinetic energy greater than about 3500 ft-lbs.

16. (Currently Amended) An insulated system comprising  
a container for retaining at least one fluid; and  
an insulation blanket disposed upon at least a portion of said container, said insulation blanket comprising  
a first layer of high-strength, ballistic resistant polymeric fabric, the first layer of high-strength polymeric fabric comprises a honeycomb cross-section having a plurality of voids defined by individual honeycomb sections;  
a layer of material having a cellular structure disposed upon said first fabric layer;  
and,  
a second layer of high-strength polymeric fabric disposed upon said cellular material, ~~and wherein the first layer of high-strength polymeric fabric comprises a honeycomb cross-section,~~ and wherein the layer of cellular material ~~at least partially-infiltrates the fabric layers,~~ and wherein the cellular material infiltrates and fills the voids defined by each individual honeycomb.

17. (Original) The insulated system of Claim 16, wherein the container is selected from the group consisting of a fuel tank, a fuel transfer line, a hydraulic tank, and a hydraulic transfer line.

18. (Original) The system of Claim 16, wherein the container is a hydrazine fuel tank.

19. (Original) The system of Claim 16, wherein the container is incorporated into the fuel system of a vehicle.

20. (Original) The system of Claim 16, wherein the container is incorporated into the hydraulic system of a vehicle.

21. (Original) The system of Claim 16, wherein the insulation is resistant to penetration by a fragment having a kinetic energy greater than about 1700 ft-lbs.

22. (Original) The system of Claim 21, wherein the insulation is resistant to penetration by a fragment having a kinetic energy greater than about 3500 ft-lbs.

23. (Currently Amended) An insulated hydrazine fuel tank comprising  
a container for retaining hydrazine fuel; and  
an insulation blanket disposed upon at least a portion of said container, said insulation blanket comprising

a first layer of high-strength, ballistic resistant polymeric fabric, the first layer of high-strength polymeric fabric comprises a honeycomb cross-section having a plurality of voids defined by individual honeycomb sections;

a layer of material having a cellular structure disposed upon said first fabric layer;  
and,

a second layer of high-strength polymeric fabric disposed upon said cellular material, ~~and wherein the first layer of high-strength polymeric fabric comprises a honeycomb cross-section,~~ and wherein the layer of cellular material ~~at least~~

partially infiltrates the fabric layers, and wherein the cellular material infiltrates and fills the voids defined by each individual honeycomb.

24 – 28 (Cancelled)

29. (Previously Presented) An insulation which is resistant to ballistic impact, comprising:

a first layer of high-strength, ballistic resistant polymeric fabric, the first layer of high-strength polymeric fabric comprises a honeycomb cross-section having a plurality of voids defined by individual honeycomb sections;

a layer of material having a cellular structure disposed upon said first fabric layer; and,

a second layer of high-strength polymeric fabric disposed upon said cellular material, and wherein the layer of cellular material infiltrates the fabric layers, and wherein the cellular material infiltrates and fills the voids defined by each individual honeycomb.